

EXHIBIT I TO PATENT ASSIGNMENT

GDC CONFIDENTIAL

GDC ATM Patents, Patent Applications, and Patents in Process

Attorney File #	Title	US File Date	US File Serial #	US Patent #	US Patent Date
	Synchronizing ATM AAL2 Minicell				
GDC-111	Generation to Multiple Voice Processing Functions				
GDC-120	SS7 Signalling Gateway Server for Voice Trunking over ATM				
GDC-091	High Speed Switching of Transport Circuits				
GDC-097	Planned Capacity Based Routing for Wide Area ATM Systems				
GDC-098	Load Balancing In ATM Networks				
GDC-088	Priority in ATM Networks				
GDC-126	Voice Transmission Utilizing ATM Protocols				
GDC-086	ATM Network Switch Having Enhanced Call Setup Capability	02/27/98	09/028,585		
GDC-087	ATM Switch with VC Priority Buffers	03/05/98	09/029,295		

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Attorney File #	Title	US File Date	US File Serial #	US Patent #	US Patent Date
	Controlled Available Bit Rate Service in an ATM Switch	05/19/98	09/077,219		
GDC-118	Hot Insertable UTOP/IA Interface	10/14/98	09/172,545		
GDC-128	A Dynamic Buffer Management for ATM Switches	provisional 7/22/98 final 1/19/01	60/093681 09/744,324		
GDC-129	An Explicit Rate ABR Algorithm for New Generation of ATM Switches	provisional 7/22/98 final 1/19/99	60/093826 09/744,323		
GDC-130	Method for Mapping Narrowband DSO details into AAL type 2 SVCs	04/09/99	09/289,463		
GDC-131	Method & Apparatus for Generation of ATM AAL2 type Broadband Setup Message from Narrowband Setup request	04/09/99	09/289,464		
GDC-132	Transporting Narrowband (voice) Traffic over a Broadband (ATM) Network	08/10/99	09/371,198		
GDC-134	Data Switch	9/29/99	09/408,449		
GDC-135	Bundle Shaping or Policing	09/29/99	PCT/US99/ 22643		

Attorney File #	Title	US File Date	US File Serial #	US Patent #	US Patent Date
GDC-137	Traffic Shaping Mechanism for Packetized Data in a Digital Network	08/10/00	09/636,277		
GDC-071	Allow Access to LMI Address Registration and from SNMP Manager				
GDC-073	Route Encapsulation and Recovery of Node Dependent Paths				
GDC-085	Service Specific Convergence Sublayer for Narrowband Packetization & Transport				
GDC-089	Direct Telnet Protocol Over SPVCs				
GDC-117	Multicast Connection Label Allocator				
GDC-056	ATM Cell Switch Suitable for Multicast Switching	11/05/93	08/147,939	5,436,883	07/25/95
GDC-057	Data Network Switch	10/04/94	08/317,336	5,461,609	10/24/95
GDC-059	ATM Cell Switch	03/17/95	08/406,300	5,796,956	08/18/98

Attorney File #	Title	US File Date	US File Serial #	US Patent #	US Patent Date
GDC-063	Packet Mode Transfer for Microcell TDM Backplane	09/22/95	08/532,888	5,615,211	03/25/97
GDC-064	Use of OAM Cells across an ATM Frame UNI	09/11/95	08/526,846	5,712,853	01/27/98
GDC-070	User Programmable OAM Loopbacks and Detection in an ATM Network	12/15/95	08/573,244	5,659,540	08/19/97
GDC-072	Routing ATM Switched Virtual Circuit Calls	03/27/96	08/624,812	5,781,529	07/14/98
GDC-075	Proxy Connection End-Points for ATM OAM Functions	07/05/96	08/675,955	5,864,555	01/26/99
GDC-077	Correlation Tag for Billing in ATM	03/29/96	08/622,897	5,949,782	09/07/99
GDC-078	A Traffic Shaping ATM Network Switch	09/15/97	08/913,815	6,044,060	03/28/00
GDC-080	ATM Network Switch with Congestion Level Signaling for Controlling Cell Buffers	05/10/98	08/644,308	5,841,773	11/24/98
GDC-082	ATM Network Switch Congestion Control	12/04/97	08/973,441	6,122,253	09/19/00
GDC-083	Controlling the Flow of ATM Cells in an ATM Network	12/04/97	08/973,442	6,115,358	09/05/00

Attorney File #	Title	US File Date	US File Serial #	US Patent #	US Patent Date
	Method & Apparatus for Connection Admission, BitRate Traffic in an ATM Switch	10/01/97	09/942,021	6,028,840	02/22/00
GDC-084	Dynamic Data Distribution to/from DSP Array (in VSM)	01/29/98	09/015,303	6,041,064	03/21/00
GDC-108	ATM AAL1 & AAL2 Adaptations Using Per Bearer Channel Selectable Data Patch	01/29/98	09/015,302	6,088,365	07/11/00
GDC-109	Fixed-Rate Serial Data Highway for Conveying Variable Rate Data for ATM AAL2 Processing	01/29/98	09/015,301	6,049,544	04/11/00
GDC-110	Precedence & Preemption in ATM Call Admission Control	05/09/97	08/853,654	6,141,322	10/31/00
GDC-113	Coordinating Multiple Processors (ten)				
GDC-139	Efficient Task Sharing between processors (ten)				
GDC-140	Signalling of an Internal Event in an Array of Processors (ten)				
GDC-141	Large Scale Multi-Environment DSP Array (ten)				
GDC-142					

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Attorney File #	Title	UK Date	UK Serial #	US File Date	US File Serial #	US Patent #	US Patent Date
	ATM Network Switch (Semi-Permanent Virtual Paths & Circuits)	10/20/99	2 306 849				
	Virtual Channel Management	05/1/98	2 337 404				
GDC-136	Network Management Information Processing	10/02/98	2 344 262	03/30/01	09/806,783		
GDC-078	Data Network Switch with Fault Tolerance	03/22/00	2 299 914	10/07/97	08/930,973	6,067,286	05/23/00
GDC-133	Communication Network	02/10/98	2 344 029	09/29/99	PCT/US99/22 653		
	Data Switch Performance Monitoring	10/02/98	2 342 527				

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